

THE INTERTWINER SPACES OF NON-EASY GROUP-THEORETICAL QUANTUM GROUPS

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Abstract: In this talk we present a combinatorial construction of the intertwiner spaces of (non-easy) group-theoretical quantum groups. In 2015, Raum and Weber defined group-theoretical quantum groups as certain semi-direct product quantum groups. They studied the case of group-theoretical easy quantum groups and constructed the corresponding categories of partitions describing their intertwiner spaces.

To construct the intertwiner spaces of non-easy group-theoretical quantum groups we generalise group-theoretical categories of partitions. We further use a variation of the fiber functor for easy quantum groups which associates partitions to linear maps of the intertwiner spaces. We show that this construction provides the intertwiner spaces of group-theoretical quantum groups in general.